Radial Freeway

Strategic Improvement Program





I-75 South

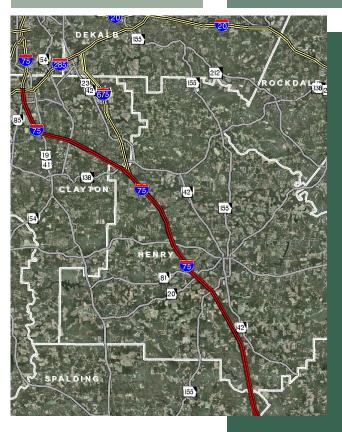
Corridor Resource Guide

Radial Freeway Strategic Improvement Plan





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Introduction



This Corridor Resource Guide documents the current (2007) and forecast (2030) travel conditions along I-75 from I-285 to the Spalding County Line. The Guide also provides detail on planned and programmed projects that are included in the Atlanta Region's *Envision6* RTP along this section of I-75.





Corridor Overview

Segment 1: From I-285 to I-675

Length = 11 miles
Average Interchange Spacing = 1.83
4 GP Lanes, No HOV lane
Parallel Corridors: US 19/41

Segment 2: From I-675 to SR 20

Length = 9 miles Average Interchange Spacing = 2.25 3 GP Lanes, No HOV lane Parallel Corridors: US 19/41, SR 42

Segment 3: From SR20 to Spalding County Line

Length = 12 miles
Average Interchange Spacing = 4.0
3 GP Lanes, No HOV lane
Parallel Corridors: US 19/41, SR 42,
SR 155





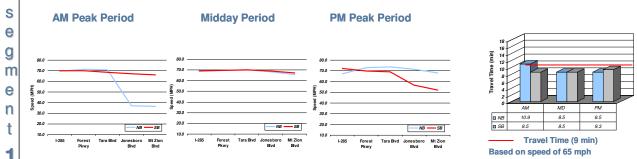


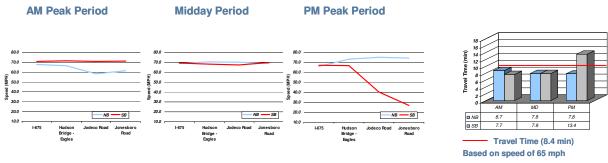
S е g m 75 е n Segment 1 S Segment 2 е g m е n Segment 3

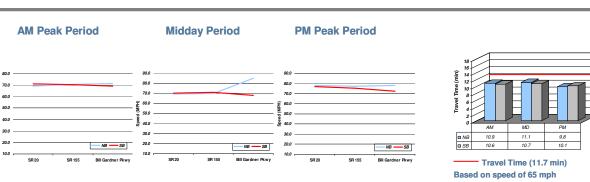


EXISTING TRAVEL SPEED 1

EXISTING TRAVEL TIME 1







AM Period = 7:00 AM to 10:00 AM Midday Period = 10:00 AM to 3:00 PM PM Period = 3:00 PM to 7:00 PM 1 - Based on 2007 Field Data

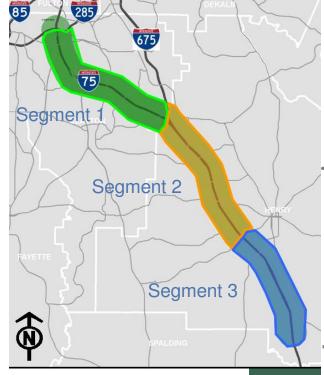


| | TRAVEL TIME INDEX (TTI) 1 | | |
|----------|---------------------------|-------------------------|---|
| | s e | ■2005 TTI = 1.85 | |
| | g | ■2030 TTI = 2.43 | |
| | m e | ■Percent Increase = 32% | ı |
| nt Plan | n † | CMTF Target TTI = 1.35 | |
| IL FIAII | · | | |

| s e g m e n t | ■2005 TTI = 1.85 ■2030 TTI = 2.43 ■Percent Increase = 32% CMTF Target TTI = 1.35 | ■2005 Daily Congestion = 1.46 hours ■2030 Daily Congestion = 3.57 hours ■Percent Increase = 145% | ■2005 V/C Ratio = 0.87 ■2030 V/C Ratio = 0.98 ■Percent Increase = 13% |
|---------------------------------|---|--|---|
| s e g m e n t | ■2005 TTI = 2.31 ■2030 TTI = 3.25 ■Percent Increase = 41% CMTF Target TTI = 1.35 | ■2005 Daily Congestion = 2.35 hours ■2030 Daily Congestion = 4.74 hours ■Percent Increase = 102% | ■2005 V/C Ratio = 0.95 ■2030 V/C Ratio = 1.06 ■Percent Increase = 12% |
| s e g m | ■2005 TTI = 1.38 ■2030 TTI = 3.07 ■Percent Increase = 122% | 2005 Daily Congestion = 0.00 hours 2030 Daily Congestion = 5.90 hours Percent Increase = N/A | ■2005 V/C Ratio = 0.74 ■2030 V/C Ratio = 1.05 ■Percent Increase = 42% |

DURATION OF

CONGESTION 1



TTI = Congested Travel Time / Free Flow Travel Time Congestion Management Task Force (CMTF) Target TTI = 1.35

CMTF Target TTI = 1.35

e n

3

Duration of congestion represents the amount of time transportation networks are congested Daily Congestion = Number of Congested Hours (Above an "Acceptable" V/C of 0.90)

1 - Based on Model Data (Envision 6)

VOLUME/ CAPACITY

(V/C) RATIO 1





Programmed and Planned Project Types

Envision6 Project Types

- Roadway Operational Upgrades
- Roadway Maintenance / Operations
- > ITS-Smart Corridor
- General Purpose Roadway Capacity
- Managed Lanes Auto/Bus and Truck*
- Transit Facilities
- Bridge Capacity
- Bridge Upgrade
- Interchange Capacity*
- Interchange Upgrade*
- Fixed Guideway Transit Capital
- Studies





Segment 1: From I-285 to I-675 Managed Lanes

➤ Aviation Blvd to SR 54
➤ SR 54 to Eagle's Landing Pkwy Interchange Capacity
➤ I-75 at Aviation Blvd Interchange Upgrade
➤ I-75 at I-285

Segment 2: From I-675 to SR 20 Managed Lanes

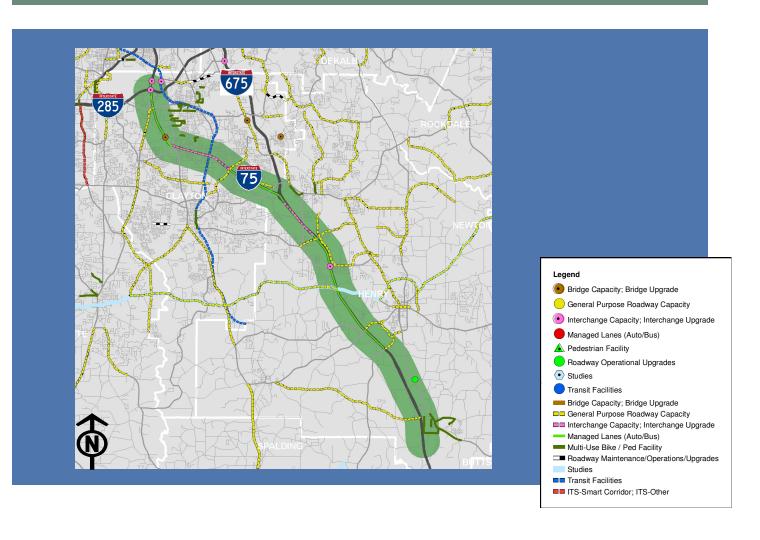
➤ SR 54 to Eagle's Landing Pkwy
➤ Eagle's Landing Pkwy to SR 155
Interchange Capacity
➤ I-75 Meadowbrook to Morrow
➤ I-75 at Jodeco Rd

Segment 3: From SR 20 to Spalding County

Managed Lanes

➤ Eagle's Landing Pkwy to SR 155







I-75 from Aviation Blvd to SR 54

ARC ID - AR-H-50

Type - Managed Lanes

Status- Programmed

Phase - Preliminary Engineering

Fiscal Year - 2008

Total Phase Cost

\$1,500,000

I-75 from Aviation Blvd to SR 54

ARC ID - AR-H-50

Type - Managed Lanes

Status-Programmed

Phase - Right-of-Way

Fiscal Year - 2010

Total Phase Cost

\$57,837,000

Georgia Department of Transportation Office of Planning

I-75 from Aviation Blvd to SR 54

ARC ID - AR-H-50

Type - Managed Lanes

Status- Programmed

Phase - Construction

Fiscal Year - LR 2014-2020

Total Phase Cost

\$90,000,000

Project Summary

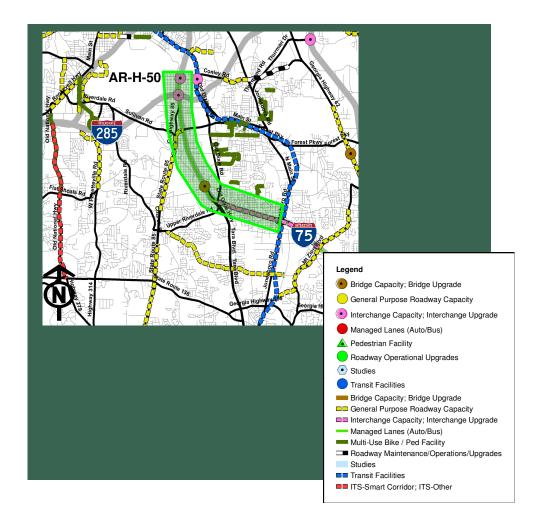
Congressional Districts 5 & 13

Sponsor - GDOT

Jurisdiction - Clayton

Total Project Cost

\$149,337,000





I-75 from SR 54 to Eagle's Landing Parkway

ARC ID – AR-H-51
Type – Managed Lanes
Status – Programmed
Phase – Right-of-Way
Fiscal Year – 2009
Total Phase Cost

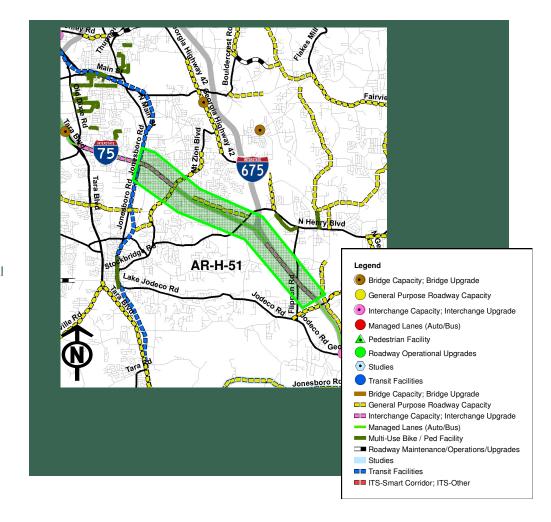
\$8.045.000

I-75 from SR 54 to Eagle's Landing Parkway

ARC ID – AR-H-51 Type – Managed Lanes Status – Programmed Phase – Construction Fiscal Year – LR 2014-2020 **Total Phase Cost** \$100.000.000

Project Summary

Congressional Districts 3 & 13 Sponsor – GDOT Jurisdiction – Multi-Jurisdictional **Total Project Cost** \$108,045,000







I-75 from Eagle's Landing Parkway to SR 155

ARC ID – AR-H-52 Type - Managed Lanes Status - Programmed Phase - Right-of-Way Fiscal Year - 2010 **Total Phase Cost**

\$8.512.000

I-75 from Eagle's Landing Parkway to SR 155

ARC ID - AR-H-52 Type - Managed Lanes Status - Programmed Phase - Construction Fiscal Year - LR 2021-2030 **Total Phase Cost** \$73,000,000

Project Summary

Congressional District 3 Sponsor - GDOT









I-75 from Meadowbrook Dr to Morrow City Limits

ARC ID – CL-AR-31
Type – Interchange Capacity
Status- Programmed
Phase – Construction
Fiscal Year – 2008
Total Phase Cost

\$19,475,000

Project Summary

Congressional District 13 Sponsor – GDOT Jurisdiction – Clayton **Total Project Cost** \$19,475,000









I-75 & I-285 Interchange

ARC ID - CL-AR-179 Type – Interchange Upgrade Status- Programmed Phase - Right-of-Way Fiscal Year - LR 2014-2020 **Total Phase Cost**

\$1,302,000

I-75 & I-285 Interchange

ARC ID - CL-AR-179 Type - Interchange Upgrade Status-Long Range Phase - Construction Fiscal Year - LR 2014-2020 **Total Phase Cost**

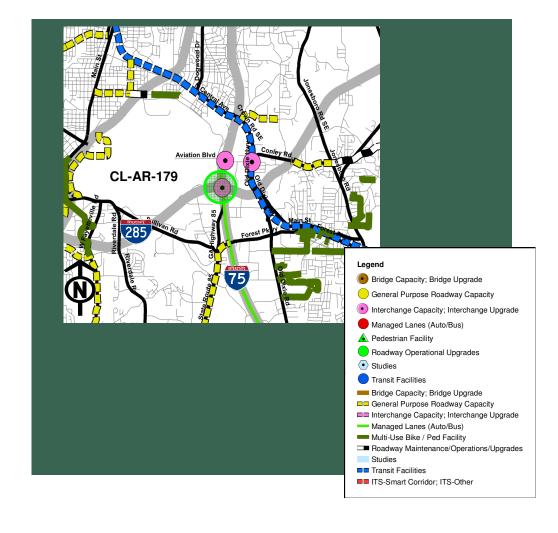
Project Summary

\$3,620,000

Congressional District 5 Sponsor - GDOT Jurisdiction - Clayton **Total Project Cost**

\$4,922,000







I-75 / Aviation Blvd / I-285 **Interchange Reconstruction**

ARC ID - AR-511-A, B, C

Type – Interchange

Capacity

Status - Programmed

Phase - Right-of-Way

Fiscal Year - 2009

Total Phase Cost

\$700,000

I-75 / Aviation Blvd / I-285 **Interchange Reconstruction**

ARC ID - AR-511-A, B, C

Type – Interchange

Capacity

Status - Programmed

Phase - Construction

Fiscal Year – LR 2021-2030

Total Phase Cost

\$224.000.000

Project Summary

Congressional District 5

Sponsor - Hartsfield - Jackson

Airport (H-JAIA)

Jurisdiction – Clayton

Total Project Cost - \$224,700,000







I-75 & Jodeco Road

\$25.935.000

ARC ID – HE-AR-216
Type – Interchange Capacity
Status- Programmed
Phase – Right-of-Way
Fiscal Year – 2008
Total Phase Cost

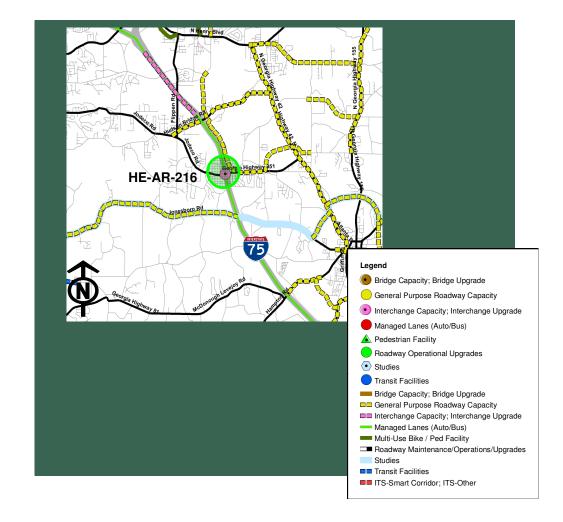
Envision6 Programmed and Planned Projects

I-75 & Jodeco Road

ARC ID – HE-AR-216
Type – Interchange Capacity
Status- Programmed
Phase – Construction
Fiscal Year – 2009
Total Phase Cost
\$19.605.000

Project Summary

Congressional District 3
Sponsor – GDOT
Jurisdiction – Henry **Total Project Cost**\$45,540,000







Funding Sources

Envision6 Project Funding Sources For I-75 South

<u>Federal</u> \$298,889,800 (47%)

<u>State</u> \$83,232,200 (13%)

<u>Local</u> \$112,000,000 (18%)

Bond \$139,409,000 (22%)

Total Corridor Investment \$633,531,000



